

Form PTO-1449 (modified)

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ATTY. DOCKET NO.
ARCD:146/PAR

SERIAL NO.
08/619,649

APPLICANT
RADOJE DRMANAC

FILING DATE
MARCH 27, 1996

GROUP
UNKNOWN

U.S. PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
GC	A1	5,202,231	04-13-93	Drmanac <i>et al.</i>	435	6	

FOREIGN PATENT DOCUMENTS

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
GC	B1	WO 90/03382	04-05-90	PCT			
↓	B2	WO 89/10977	11-16-89	PCT			

OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, & Date)

GC	C1	Brumbaugh <i>et al.</i> , "Continuous, on-line DNA sequencing using oligodeoxynucleotide primers with multiple fluorophores," <i>Proc. Natl. Acad. Sci. USA</i> , 85:5610-5614, 1988.
	C2	Cantor <i>et al.</i> , "Report on the Sequencing by Hybridization Workshop," <i>Genomics</i> , 13:1378-1383, 1992.
	C3	Cate <i>et al.</i> , "Genomic Southern Analysis with Alkaline-Phosphatase-Conjugated Oligonucleotide Probes and the Chemiluminescent Substrate AMPPD," <i>GATA</i> , 8(3):102-106, 1991.
	C4	Craig <i>et al.</i> , "Labelling oligonucleotides to high specific activity (I)," <i>Nucleic Acids Research</i> , 17(12):4605-4610, 1989.
	C5	Dolinnaya <i>et al.</i> , "Site-directed modification of DNA duplexes by chemical ligation," <i>Nucleic Acids Research</i> , 16(9):2731-3739, 1988.
	C6	Drmanac <i>et al.</i> , "DNA Sequence Determination by Hybridization: A Strategy for Efficient Large-Scale Sequencing," <i>Science</i> , 260:1649-1652, 1993.
	C7	Drmanac and Crkvenjakow, "Prospects for a Miniaturized, Simplified and Frugal Human Genome Project", <i>Scientia Yugoslavica</i> , 16(1-2)97-107, 1990.
	C8	Drmanac <i>et al.</i> , "Sequencing by Oligonucleotide Hybridization: A Promising Framework in Decoding of the Genome Program?" <i>The First International Conference on Electrophoresis, Supercomputing and the Human Genome</i> , April 10-13, 1990, Florida State University, Tallahassee, Florida, C.R. Cantor and H.A. Lim, Eds., World Scientific, Publishers, pp. 47-59.

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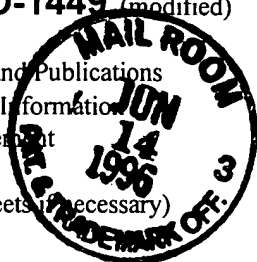
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60	B3	WO 93/05183	03-18-93	PCT			
	B4	WO 91/06678	5-16-91	PCT			

OTHER ART (Author, Title, Journal, Volume, Pertinent Pages, & Date)

	C9	Duncan and Cavalier, "Affinity Chromatography of a Sequence-Specific DNA Binding Protein Using Teflon-Linked Oligonucleotides," <i>Analytical Biochemistry</i> , 169:104-108, 1988.
	C10	Fodor <i>et al.</i> , "Light-Directed, Spatially Addressable Parallel Chemical Synthesis," <i>Science</i> , 251:767-773, 1991.
	C11	Hoheisel and Lehrach, "Quantitative measurements on the duplex stability of 2,6-diaminopurine and 5-chloro-uracil nucleotides using enzymatically synthesized," <i>FEBS</i> , 274(1,2):103-106, 1990.
	C12	Hoheisel <i>et al.</i> , "Effect of 5-Bromo- and 5-Methyldeoxycytosine on Duplex Stability and Discrimination of the <i>NotI</i> Octadeoxynucleotide," <i>The Journal of Biological Chemistry</i> , 265(27):16656-16660, 1990.
	C13	Khrapko <i>et al.</i> , "A Method for DNA Sequencing by Hybridization with Oligonucleotide Matrix," <i>Journal of DNA Sequencing and Mapping</i> , 1:375-388, 1991.
	C14	Murakami <i>et al.</i> , "Fluorescent-labeled oligonucleotide probes: detection of hybrid formation in solution by fluorescence polarization spectroscopy," <i>Nucleic Acids Research</i> , 19(15):4097-4102, 1991.
	C15	Pontius and Berg, "Rapid renaturation of complementary DNA strands mediated by cationic detergents: A role for high-probability binding domains in enhancing the kinetics of molecular assembly processes," <i>Proc. Natl. Acad. Sci. USA</i> , 88:8237-8241, 1991.

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66	C16	Rasmussen <i>et al.</i> , "Covalent Immobilization of DNA onto Polystyrene Microwells: The Molecules are only Bound at the 5' End," <i>Analytical Biochemistry</i> , 198:138-142, 1991.
	C17	Running and Urdea, "A Procedures for Productive Coupling of Synthetic Oligonucleotides to Polystyrene Microtiter Wells for Hybridization Capture.", <i>Biotechniques</i> , 8(3): p276, 279, 1990.
	C18	Schriefer <i>et al.</i> , "Low pressure DNA shearing: a method for random DNA sequence analysis," <i>Nucleic Acids Research</i> , 18(24):7455, 1990.
	C19	Schubert <i>et al.</i> , "One-step labelling of oligonucleotides with fluorescein during automated synthesis," <i>Nucleic Acids Research</i> , 18(11):3427, 1990.
	C20	Shabarova <i>et al.</i> , "Chemical ligation of DNA: the first non-enzymatic assembly of a biologically active gene," <i>Nucleic Acids Research</i> , 19(15):4247-4251, 1991.
	C21	Southern <i>et al.</i> , "Analyzing and Comparing Nucleic Acid Sequences by Hybridization to Arrays of Oligonucleotides: Evaluation Using Experimental Models," <i>Genomics</i> , 13:1008-1017, 1992.
	C22	Strezoska <i>et al.</i> , "DNA Sequencing by Hybridization: 100 Bases Read by a Non-Gel-Based Method," <i>Proc. Natl. Acad. Sci. USA</i> , 88:10089-10093, 1991.
	C23	Van Ness <i>et al.</i> , "A versatile solid support system for oligodeoxynucleotide probe-based hybridization assays," <i>Nucleic Acids Research</i> , 19(12):3345-3350, 1991.

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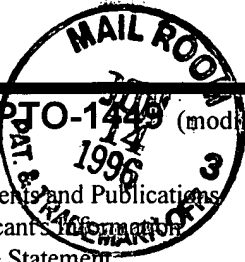
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6c	C24	Broude <i>et al.</i> , Enhanced DNA sequencing by hybridization, <i>Proc. Natl. Acad. Sci. USA</i> , 91:3072-3076, 1994
	C25	Drmanac <i>et al.</i> , Sequencing of Megabase Plus DNA by Hybridization: Theory of the Method, <i>Genomics</i> , 4:114-128, 1989
	C26	Drmanac <i>et al.</i> , Laboratory Methods: Reliable Hybridization of Oligonucleotides as Short as Six Nucleotides, <i>DNA and Cell Biology</i> , 9:527-534, 1990
	C27	Drmanac <i>et al.</i> , An Algorithm for the DNA Sequence Generation from K-Tuple Word Contents of the Minimal Number of Random Fragments, <i>Journal of Biomolecular Structure & Dynamics</i> , 8:1085-1102, 1991
	C28	Drmanac <i>et al.</i> , Genome Sequencing Machine, 1994 Abstract Book for 'Genome Mapping and Sequencing', arranged by Richard Myers, David Porteous and Robert Waterstone, Cold Spring Harbor Labs, p. 60.
✓	C29	Eggers, <i>et al.</i> , A Microchip for Quantitative Detection of Molecules Utilizing Luminescent and Radioisotope Reporter Groups, <i>BioTechniques</i> , 17(3):516-524, 1994

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EC	C30	Fitzgerald <i>et al.</i> , Rapid Shotgun Cloning Utilizing the Two Base Recognition Endonuclease CviII, <i>Nucleic Acids Research</i> , 20(14):3753-3762, 1992
	C31	Kondo, T. and Kondo, Y, A New Method for Classifying and Mapping of the Human Genomic DNA Fragments, <i>Human Genome Mapping Workshop 93</i> , Kobe, Japan, November 14-17, 1993, Article 29-16
	C32	Landegren <i>et al.</i> , A Ligase-Mediated Gene Detection Technique, <i>Science</i> , 241:1077-1080, 1988
	C33	Nichols <i>et al.</i> , A Universal Nucleoside for Use at Ambiguous Sites in DNA Primers, <i>Nature</i> , 369:492-493, 1994
	C34	Pease <i>et al.</i> , Light-Generated Oligonucleotide Arrays for Rapid DNA Sequence Analysis, <i>Proc. Natl. Acad. Sci. USA</i> , 91:5022-5026, 1994
	C35	Peterkin <i>et al.</i> , A Useful System for Propagating and Storing Genomic Libraries, <i>Research Report</i> , 5:_____, 1987
✓	C36	Peterkin <i>et al.</i> , Screening DNA Probes Using the Hydrophobic Grid-membrane Filter, <i>Food Microbiology</i> , 6:281-284, 1989

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GC	C37	Pevzner, Pavel A., 1-Tuple DNA Sequencing: Computer Analysis, <i>Journal of Biomolecular Structure & Dynamics</i> , 7(1):63-73, 1989
	C38	Pevzner <i>et al.</i> , Improved Chips for Sequencing by Hybridization, <i>Journal of Biomolecular Structure & Dynamics</i> , 9(2):399-410, 1991
	C39	Rasmussen, Soren, Covalent Binding of DNA to Covalink NH Methods and Applications, <i>Nunc Bulletin</i> , 10: 1992
	C40	Sharpe <i>et al.</i> , Technique for Maintaining and Screening Many Microbial Cultures, <i>Food Microbiology</i> , 6:261-265, 1989
	C41	Unrau <i>et al.</i> , DNA Indexing: A Powerful Method for the Amplification of Specific Fragments From a Restriction Digest of Whole Human DNA, <i>Human Genome Mapping Workshop 93</i> , Kobe, Japan, November 14-17, 1993, Article 29-34
✓	C42	Wu and Wallace, Specificity of the Nick-Closing Activity of Bacteriophage T4 DNA Ligase, <i>Gene</i> , 16:245-254, 1989

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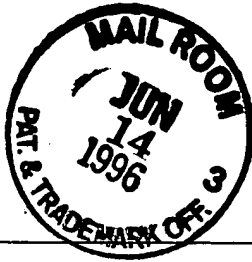
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GC	C43	Khrapko <i>et al.</i> , "An oligonucleotide hybridization approach to DNA sequencing," <i>FEBS Lett</i> , 256:118-122, 1989.
↓	C44	Kieleczawa <i>et al.</i> , "DNA Sequencing by Primer Walking with Strings of Contiguous Hexamers," <i>Science</i> , 258:1787-1791, 1992.
↓	C45	Studier, "A Strategy for high-volume sequencing of cosmid DNAs: Random and directed priming with a library of oligonucleotides," <i>Proc. Natl. Acad. Sci. USA</i> , 86:6917-6921, 1989.
↓	C46	Szybalski, "Proposal for sequencing DNA using ligation of hexamers to generate sequential elongation primers," <i>Gene</i> , 90:177-178, 1990.
↓	C47	International Search Report; PCT/US94/10945; mailed February 17, 1995.

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